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Fig. 4	Directory	{UserID, encrypt(K _m {H p, U})}							${Alice \leftarrow encrypt(K_m \{H p, U\})}$												
	B ₂	{UserID, y ₂ , V}		THE STATE OF THE S						$m_3 = m_1^{1/2}$	record m ₁	Alice ← m ₃						verify m ₄ signature of	m ₁ using V	if verified,	erase m ₁ event
	B ₁	{UserID, y ₁ , V}				$m_2 = m_1^{y_1}$	record m ₂	Alice $\leftarrow m_2$										verify m ₄ signature of	m ₁ using V	if verified,	erase m ₁ event
	Alice		P = func(password)	$m_1 = P^X$	UserID,m ₁ → B ₁ , B ₂								$K_{m} = hash(m_2 * m_3)^{1/x}$	$= hash(K_1 * K_2)$	decrypt encrrypted data using K _m to get H _p and U	if H _P != hash(P), abort	$m_4 = sign(U, m_1) \rightarrow B_1, B_2$				
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												Fig. 5)				200			
Directory	{UserID, encrypt(Km {HP, U})}						1 1011000000000000000000000000000000000	$\{Alice \leftarrow \textit{encrypt}(K_{III}\{H_{IP},U\})\}$												
B ₂	{UserID, y ₂ , V}								$m_3 = m_2^{y_2}$	record m ₃	$B_1 \leftarrow m_3$								verify m ₄ signature of m ₁ using V	if verified, erase m ₁ event
В1	{UserID, y ₁ , V}				$m_2 = m_1^{y_1}$	record m ₁	UserID, $m_2 \rightarrow B_2$				Alice $\leftarrow m_3$					$m_4 \rightarrow B_2$	verify m ₄ signature of m ₁ using V	if verified, erase m ₁ event		
Alice		P = func(password)	$m_1 = P^X$	UserID,m ₁ → B ₁								$K_{m} = hash(m_3^{1/x})$	$= hash(P^y1^y2)$	decrypt encrrypted data using K _m to get H _P and U	if H _P !=hash(P), abort	$m_4 = sign(U, m_1, m_3) \rightarrow B_1$				
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